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Catalog of

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U. S. Department of Agriculture

GLADIOLUS

Season of
1936

LOUIS R. FISCHER

4824 Penn Avenue South
MINNEAPOLIS, MINNESOTA

A Message of Introduction

IN PRESENTING my 1936 catalogue, I wish first to announce that the purpose of compiling these pages is to give to the gladiolus growers not only a selected list of varieties but also valuable information that will be of assistance in the growing of better gladiolus. If I have done this I will have accomplished my purpose.

Each year I endeavor to offer a list of gladiolus containing the finest varieties it is possible to gather together. To do this I have collected what I considered to be the best American and foreign introductions and thoroughly tested them before offering them for sale. I have tried to give as accurate descriptions as possible but you must bear in mind that under varying conditions gladiolus will not always give the same results.

Included in this year's catalogue are brief but concise cultural directions, giving information on soil preparation, planting, fertilizing, watering and cultivating. The proper methods are given for the control of thrip in the garden and in storage. Also the proper treatment for the prevention of scab or neck rot. I trust that this information will be of some value to you.

1935 Awards

My gladiolus won the three major awards at the Minnesota Gladiolus Society Show again this past season. They are listed as follows:

Minnesota Gladiolus Society Permanent Trophy for the grand sweepstakes. (The second consecutive year winning this prize.)

The Colonial Gardens Challenge Trophy for winning the majority awards offered for the artistic arrangement of baskets, vases and bowls.

American Gladiolus Society Gold Medal for winning the most points in the open class.

Comparative Prices

In buying bulbs do not consider price alone, as quality of the stock and reliability of the grower are of greater importance. However, I do believe that my prices are very reasonable considering that I offer good quality and service. Generous extras are always included with every order to insure you good value.

Highest Quality

My soil is well adapted to the growing of vigorous clean bulbs. Irrigation is resorted to when necessary, so that the bulbs will not lose their vigor struggling to exist during dry weather. All Glads offered in this list are grown in my nursery. I do not make a practice of buying bulbs for resale or having them grown for me. All bulbs are guaranteed to be free of disease and insect pests, true to name and full sized. I would suggest, if you want good northern grown stock, that you place your order without delay, as many of the newer varieties are very likely to be sold out early in the season.

Key to Classification

An added feature in my catalogue this year is the tabular headings at the top of each page. Under these headings and directly under each variety you will find abbreviations which will enable you to determine easily and quickly the substance, kind of floret, season of bloom and the type of flower. I have tried to be as accurate as possible in giving this information but a few minor changes may be necessary after further trial of some of the newer varieties.

The substance is the thickness of the petals and is classified as Excellent, Good and Fair, which are abbreviated by using only the first initials of each.

The kind of floret is indicated by "Pl." for plain petals, "Ruf." for ruffled petals and "Lac." for lacinated petals.

The season of bloom is divided into Early (60-70 days), Early Midseason (70-80 days), Midseason (80-90 days), Late Midseason (90-100 days), and Late (over 100 days). These are abbreviated by the first letter of each word.

I am using the new type classification as adopted by the American Gladiolus Society which places all gladiolus under one of three groups. These groups now class gladiolus as to size rather than on form or shape. The type is indicated by Exhibition, Decorative and Small Decorative, which are abbreviated by "Ex.," "Dec." and "Sm. Dec." respectively. Exhibition varieties have very large flowers and many florets open at one time. The decorative type is not hampered by demands for extreme size and many open, the florets usually being about four or five inches in diameter. Beauty of form and color are the important features of this type. Some of our finest cut flower varieties come under this class. The small decorative flowers have florets three inches or under, the smaller the better. This new classification gives us a truer and more accurate idea as to the type of flower and the smaller and more decorative varieties are now given their proper recognition at the shows.

Discounts

These discounts apply only when cash is remitted with your order. Please note that you have a choice of either taking the discount in extra bulbs of your selection or deducting the cash from the order.

Extra Bulbs, Your Selection

15% on orders from \$ 3.00 to \$10.00
 20% on orders from 10.00 to 20.00
 25% on orders from 20.00 to 40.00
 30% on orders from 40.00 and up

Cash Discounts

10% on orders from \$ 3.00 to \$10.00
 15% on orders from 10.00 to 20.00
 20% on orders from 20.00 to 40.00
 25% on orders from 40.00 and up

Discounts do not apply on Special Collections.

Terms

Please send cash or 25% deposit; balance before shipment. No orders accepted for less than \$1.50. Transportation charges prepaid. Five bulbs sold at the 10 rate and 25 or more at the 100 rate. Minimum charge for any item, 10c. As the planting and care of all bulbs and plants sold by us are beyond our control we can not be in any way responsible for the results after planting.

Large bulbs are $1\frac{1}{4}$ inches or more in diameter but in most cases will be $1\frac{1}{2}$ to 2 inches. Medium size will be from $\frac{3}{4}$ to $1\frac{1}{4}$ inches and small bulbs from $\frac{1}{4}$ to $\frac{3}{4}$ inch. When there is a figure before the price such as 2-.15 it means 2 bulbs for 15c.

Miss Marion

HERE is a flower that everyone will want to grow in their garden because it is early and of a shade of lavender not seen in any other gladiolus. Miss Marion will be in big demand as soon as it is better known and the stock is available. It has all around good characteristics and I cannot name a single fault that I have observed in the growing of this flower.

At the 1934 Indiana Gladiolus Society Show Miss Marion was entered in a collection of ten seedlings. This collection was awarded the I. G. S. Silver Medal. One spike of Miss Marion had 28 buds with 16 florets open that were 6 inches across. It was declared by many critics to be the best lavender in the entire show. After having grown it in Minnesota we are of the opinion that it will not be surpassed in its color class by any other variety for some time to come.

COLOR

Beautiful mauve lavender, with a soft cream throat that enhances its beauty. It is a color that has long been sought after by hybridists and is a welcome addition to the gladiolus color scale.

SEASON OF BLOOM

Approximately 75 days, depending on location and type of soil. It blooms considerably earlier than Minuet and that fact alone makes it a very valuable variety.

SPIKE

Decorative type of flower, opening up to 10 florets at once in perfect placement. Twenty-two to 24 is the average number of buds but 26 is not unusual. We have never known a spike to crook.

SUBSTANCE

Very good. The florets never burn or fleck and stand up under the hottest weather.

GROWTH

Vigorous grower, producing a sturdy plant with wide rich green foliage. Blooms from young stock.

PROPAGATION

Good producer of bulblets that germinate very easily. It also makes sound healthy bulbs.

ORIGINATOR

Mr. Lloyd O. Zimmer, Bremen, Indiana. I am introducing Miss Marion in conjunction with Mr. Zimmer, having bought one-half of the stock from him last year. He is also the originator of such well known varieties as Queen of Bremen, Dream O'Beauty, Bob White and many others.

PRICE

The stock of Miss Marion is comparatively small but we decided to market a limited amount this year. Bulbs are being offered in all sizes and at a very reasonable price. Bulblets are being withheld to increase our stock.

Bulbs (all sizes) \$5.00 each. Three bulbs—\$12.50.

Leading Minneapolis florists were very enthusiastic about Miss Marion and predicted a great future for it. It will be to the advantage of those who grow gladiolus for the cut flower market to get a start on this fine variety now and be the first to offer it in their community.

Orange Delight

This miniature decorative variety, originated by Mr. A. E. Kunderd, is without a doubt the most outstanding gladiolus in its class. The color is a combination of apricot orange overlaid with bittersweet orange. Its brilliancy, together with its dainty spike, gives it a charm that words cannot describe. Lacinated petals and the very unusual form of the florets add to the beauty of this flower. For artistic arrangement in bowls and vases it cannot be equalled when a touch of color is desired. Orange Delight is a consistent winner in the shows and is enthusiastically admired by everyone who has seen it. It is an early bloomer, vigorous grower and good propagator. We predict a great future for this distinct flower.

Bulbs (all sizes) 50c each. Twelve bulbs—\$5.00.
No bulblets for sale this year.

General List

<i>Substance</i>	<i>Floret</i>	<i>Season</i>	<i>Type</i>	Per	Large	Med.	Small	Per	Blts.
AFLAME (<i>Hornberger</i>) rose. Tall spike.	Flame	red	overlaid begonia	3	.15	..	..	100	.15
G	Pl.	EM	Ex. Dec.	10	.45	.25	.15	..	..
ALLEMANIA (<i>Pfitzer</i>) grower with large florets.	Bright light	scarlet.	Strong	1	3.00	2.00	1.20	1	.25
G	Pl.	M	Ex.						
AMADOR (<i>Kingsley</i>) popular. Good grower.	Large	brilliant	red. Very	1	.15	.10	2-.15	15	.20
G	Pl.	M	Ex.	10	1.20	.80	.60	100	1.10
BAGDAD (<i>Palmer</i>) Best of its color.	Smoky old	rose.	Tall spike.	2	.15	..	..	100	.20
G	Pl.	LM	Ex.	10	.60	.30	.20	1000	1.75
				100	..	2.50	1.40	Qt.	5.00
BETTY CO-ED (<i>Briggs</i>) tiful as a cut flower.	Light creamy	pink.	Beau-	2	.15	2-.10	3-.10	20	.25
G	Pl.		Dec.	..	..	..	..	100	.80
BETTY NUTHALL (<i>Salbach</i>) orange. Tall. Excellent grower.	Light apricot	to		3	.15	..	..	100	.15
E	Pl.	L	Ex. Dec.	10	.45	.25	.15	Pt.	1.00
BILL SOWDEN (<i>Fallu</i>) grower.	Deep blood	red.	Good	2	.15	2-.10	5-.15	35	.15
G	Pl.	M	Ex.	..	..	..	..	100	.35
BLUE ADMIRAL (<i>Christ</i>) Tall spikes and good grower.	The best	deep	violet.	1	.60	.35	.25	10	.40
E	Pl.	EM	Ex.	10	4.80	2.80	1.80	100	3.20
BLUE DANUBE (<i>Pfitzer</i>) Clear	light	blue.		1	.10	2-.10	3-.10	..	..
G	Pl.	M	Ex. Dec.						
BOB WHITE (<i>Zimmer</i>) Extra fine tall spike.	White with	dark	blotch.	1	.25	.15	.10	10	.15
G	Pl.		Ex.	10	2.00	1.25	.75	100	1.25
				100	..	..	6.50	1000	9.00
CHAMPLAIN (<i>Palmer</i>) healthy vigorous grower.	New	light	blue. Tall	1	.60	.40	.20	10	.60
G	Pl.	EM	Ex.	10	..	3.00	1.50	100	5.00
COMMANDER KOEHL (<i>Pfitzer</i>) red. Many open on tall spike.	Brilliant	dark		2	.15	..	..	100	.25
E	Pl.	LM	Ex.	10	.60	.30	.20	1000	2.00
CORONATION (<i>Palmer</i>) ing to cream throat. Fine.	Soft light	salmon	shad-	1	.20	.10	2-.12	25	.20
G	Pl.	LM	Ex.	10	1.60	.80	.50	100	.60

<i>Substance</i>	<i>Floret</i>	<i>Season</i>	<i>Type</i>	Per	Large	Med.	Small	Per	Blts.
DAFFODIL (<i>Mair</i>) flowers and many open. G Pl.	Golden	yellow self.	Large	1	.75	.50	.25	2	.15
			Dec.						
D. A. HAY (<i>Miss Whiteley</i>) with cream throat. Pleasing color. G Pl. M	Champion	light pink		1	1.00	.60	.40	2	.20
				10	..	..	3.40	10	.75
DEBONAIR (<i>Palmer</i>) Tall straight spike. E Pl. LM	LaFrance	pink, cream throat.		1	.20	.10	2-.12	25	.20
			Dec.	10	1.40	.80	.50	100	.60
DOROTHY DELL (<i>Carpenter</i>) lighter throat. Tall spike. G Pl. E	Chrome-orange,			1	.20	2-.25	..	15	.20
				10	1.80	1.00	.50	100	1.00
DOROTHY DOW (<i>Evans</i>) with gray overtone. Good spike G Pl. LM	Old rose and orange			1	..	.50	.30	2	.20
			Ex.	..	..	..	..	5	.40
DREAM O' BEAUTY (<i>Zimmer</i>) Glad of unusual color. G Pl. M	Rose red.	Fine		1	.25	.15	.10	10	.25
			Ex.	10	2.00	1.25	.75	25	.55
DR. F. E. BENNETT (<i>Diener</i>) well-shaped spike. Very fine. G Ruf. M	Bright scarlet.	Tall		3	.15	..	..	..	..
			Ex.	10	.45	.30	.15	..	..
EARLY MELODY (<i>Arenius</i>) strong grower. G Pl. E	Pinkish lavender.	Tall		1	.20	.15	..	20	.20
			Dec.	10	1.50	1.20	..	100	1.50
EDITH ROBSON (<i>Brown</i>) blotch. Tall Australian variety. E Pl. M	Light salmon rose.	Red		1	.15	2-.20	..	..	..
				10	1.00	.65	..	..	..
ENSEMBLE (<i>Stevens</i>) being ruffled and laciniated. G Lac. EM	Fine yellow.	Unusual form		1	.20	2-.25	..	100	.25
			Sm. Dec.	10	1.60	1.00	.60	1000	2.00
FRILLED CHAMPION (<i>DeGroot</i>) Darker blotch. Wide open florets G Ruf. M	Orange scarlet.			1	.20	.15	.10	15	.15
			Dec.						
GATE OF HEAVEN (<i>Pfizer</i>) color. Good propagator. G Ruf. EM	Fine rich yellow self			1	.25	.15	.10	10	.25
			Ex.	..	..	..	..	100	2.00
GERTRUDE SWENSON (<i>Swenson</i>) mauve. Good placement. Many open. F Pl. M	Beautiful			1	1.00	.60	.30	10	.50
			Dec.	10	..	5.00	2.50	..	..
GLORIA MUNDI (<i>Pfizer</i>) always good placement. G Pl. E	Deep yellow self.	Not		1	.20	.15	.10	10	.15
			Dec.						
GOLDEN CHIMES' (<i>Ellis</i>) yellow. Tall spike. Very fine. E Ruf. M	Large ruffled clear			1	.50	.30	.20	..	..
			Ex.						
GOLDEN DREAM (<i>Groff</i>) deep yellow. Late bloomer. E Pl. LM	Tall strong grower of			3	.15	..	..	100	.20
			Dec.	10	.45	.30	.15	..	..
GOLDEN FLEECE (<i>Ellis</i>) spike. Excellent for cut flower. G Pl.	Deep yellow.	Very tall		1	4.00	2.50	1.00	1	.25
			Ex.						
GOLDFINCH (<i>Crow</i>) G Pl. M	Large deep yellow.	Tall.		1	.10	2-.10	3-.10	35	.15
			Ex.	10	.80	.40	..	100	.40
HERCULES (<i>Crow</i>) Strong massive grower of heavy texture E Pl. M	Clear buff or light chamois.			1	.75	.50	.25	10	.50
			Ex.	10	..	..	2.00	..	..
HUNTSMAN (<i>Symons</i>) throat. Long spike with 8 to 10 open.	Scarlet with small white			1	.50	.30	.20	2	.20

<i>Substance</i>	<i>Floret</i>	<i>Season</i>	<i>Type</i>	Per	Large	Med.	Small	Per	Blts.
HYACINTH (<i>Gilrey</i>)	Delicate shell pink with lemon lip. Very large. Not heavy texture.			1	..	.15	2-.15	10	.20
F	Pl.	LM	Ex.	10	..	1.25	.60	100	1.50
IMPRESSARIO (<i>Kunderd</i>)	Lemon yellow. Lower petals canary yellow.			1	.12	.10	..	..	..
G	Lac.	EM	Sm. Dec.	10	1.00	.75	.45	..	..
INSPIRATION (<i>Palmer</i>)	Deep shrimp pink. Very heavy texture. Fluted and laciniated.			2	.25	.15	3-.20	10	.15
E	Lac.	LM	Dec.	10	1.10	.70	.50	..	..
JANET (<i>Crow</i>)	Smoky peach rose. Fine.			2	.15	..	..	35	.15
G	Ruf.	M	Dec.	10	.50	.30	.15	..	..
JEAN PHYLLIS (<i>Carpenter</i>)	LaFrance pink shading to yellow throat.			1	.50	.30	.15	10	.30
G	Pl.		Ex. Dec.						
JONQUIL (<i>Palmer</i>)	Clear deep yellow. Wiry straight spike. One of the best.			1	1.65	1.00	.75	2	.30
E	Pl.	EM	Dec.	10	..	..	5.00	10	1.20
J. S. BACH (<i>Pfitzer</i>)	Salmon rose to lighter throat. Large strong grower.			1	.80	.50	.30	2	.20
G	Pl.	M	Ex.	..	..	..	..	10	.80
KING ARTHUR (<i>Arenius</i>)	Rosy lavender self-color Extra fine form.			1	.25	.15	.10	15	.20
E	Ruf.	LM	Ex. Dec.	10	2.00	1.20	.80	100	1.00
LADY EATON (<i>Palmer</i>)	Large light pink, white throat. Tall strong spike. Opens 6 to 7.			1	.60	.40	.20	2	.15
G	Pl.	M	Dec.	10	..	..	1.75	10	.60
LADY LOVE (<i>DeGroot</i>)	Light salmon pink to rose. Large wide open flower. Early. Very fine			1	.25	.15	.10	10	.20
G	Pl.	E	Ex. Dec.	10	2.00	1.25	.75	100	1.40
				..	..	..	..	1000	10.00
LA PALOMA (<i>Dusinberre</i>)	Rich orange that does not fade. Tall strong grower.			2	.12	..	..	100	.20
G	Pl.	M	Dec.	10	.50	.30	.15	..	..
LAVENDER DELIGHT (<i>Arenius</i>)	Pure deep lavender with white throat.			2	.20	3-.20	..	25	.15
G	Pl.		Ex.	10	.75	.50	.30	100	.50
				..	..	..	..	1000	4.00
LA VICTOIRE (<i>DeGroot</i>)	Self-color blood red. Large wide open flowers. Very fine red.			1	.30	.20	.15	10	.30
G	Pl.	M	Ex.						
LUCIFER (<i>Errey</i>)	Orange scarlet, crimson blotch. Very tall spike.			1	.15	2-.20	2-.15	25	.15
G	Pl.	M	Ex.	10	..	.75	.50	100	.60
MAID OF ORLEANS (<i>Pfitzer</i>)	White with cream throat. Tall grower and good placement.			1	.12	2-.15	..	20	.20
G	Pl.	LM	Ex. Dec.	10	.90	.60	.40	100	.90
MARCHEN (<i>Pfitzer</i>)	Light pink with lighter throat. Large florets.			1	..	.90	.50	1	.20
G	Pl.	M	Ex.						
MARGARET FULTON (<i>Ogrodnichek</i>)	Coral to deep salmon. Good placement.			2	.15	..	..	100	.25
G	Pl.	F	Ex.	10	..	.30	.20	..	..
MARMORA (<i>Errey</i>)	Lavender rose or grey. Pale purplish blotch. Very much liked.			3	.15	..	..	100	.15
E	Pl.	M	Ex.	10	.45	.25	.15	..	..
MAUNGA (<i>Burns</i>)	Gigantic pure white. Winner of many awards in New Zealand.			1	4.00	3.00	2.00	1	.60
G	Pl.		Ex.						
MAX REGER (<i>Pfitzer</i>)	Lavender blue with deeper throat marks. Very fine.			1	1.20	.80	.40	1	.12
G	Pl.	EM	Ex.	..	..	..	..	5	.50

<i>Substance</i>	<i>Floret</i>	<i>Season</i>	<i>Type</i>	Per	Large	Med.	Small	Per	Blts.
MAY DAVIDSON (<i>Hall</i>)	Rose	edged blue.	Tall	1	.30	.20	.12	10	.25
spike with large flowers.				10	..	1.80	1.00	100	2.00
G	Pl.		Ex.						
MILDRED LOUISE (<i>Wentworth</i>)	Salmon pink.	Very		1	.20	.12	2-.15	10	.20
fine color and excellent grower.				10	1.60	1.00	.60	100	1.70
G	Pl.	M	Ex. Dec.	..	..	..	..	1000	11.00
MILFORD (<i>Rides</i>)	Clear azure blue.	Inconspicuous		1	1.50	1.00	.70	1	.15
throat marking. Large blooms. Fine.									
G	Pl.		Ex.						
MINUET (<i>Colman</i>)	Pure lavender.	Large flowers		2	.12	..	..	..	..
and good placement. A great Glad.				10	.50	..	..	..	..
E	Pl.	M	Ex.						
MISS ALAMEDA (<i>Salbach</i>)	Deep saffano pink with			1	.20	.15	.10	..	..
carmine feathering. Large expanded florets.									
G	Pl.	EM	Ex. Dec.						
MISS F. E. WILLARD (<i>Yarra</i>)	Giant flower of self			1	.30	.20	.12	..	..
salmon. Good substance.									
MISS MARION (<i>Zimmer</i>)	New mauve lavender with			1	5.00	5.00	5.00	..	..
cream throat. Early bloomer. Very fine.				3	12.50	12.50	12.50	..	..
(See page five for complete description.)									
E	Pl.	EM	Dec.						
MISS NEW ZEALAND (<i>Julyan</i>)	Salmon pink with			1	3.25	2.50	2.00	1	.30
darker blotch. Mammoth size flowers.				..	..	..	..	10	2.80
G	Pl.	M	Ex.						
MOORISH KING (<i>Pfitzer</i>)	Deep rich maroon self.			1	.25	.20	.12	..	..
Heavy growth and tall spike. Very fine.									
G	Pl.	M	Ex.						
MOTHER MACHREE (<i>Stevens</i>)	Smoky old rose			2	.15	..	..	100	...
that is hard to describe. Tall fine spike.				10	.55	.35	.20	..	..
G	Pl.	LM	Ex.						
MRS. E. J. HEATON (<i>Heaton</i>)	Deep strawberry			1	.75	.50	.30	2	.15
pink. A fine hot weather variety.				..	..	..	..	10	.50
G	Pl.	M	Dec.						
MR. W. CUTHBERTSON (<i>Mair</i>)	Rosy pink to			1	.15	.10	2-.10	100	1.00
lighter center. Heavily ruffled.				10	..	..	.40	..	..
G	Ruf.	M	Dec.						
ORANGE DELIGHT (<i>Kunderd</i>)	Apricot orange			1	.50	.50	.50	..	..
overlaid bittersweet orange. (See page six.)				12	5.00	5.00	5.00	..	..
G	Lac.	E	Sm. Dec.						
ORANGE PRINCESS (<i>DeGroot</i>)	Salmon orange.			1	.15	.10	2-.15	100	.50
Wide open flowers. Strong grower. Very fine.				10	1.30	.80	.50	1000	4.00
G	Pl.	M	Ex.	100	..	7.00	4.00	Qt.	15.00
ORANGE SOVEREIGN (<i>Stevens</i>)	Orange buff suf-			1	.30	.20	.15	10	.30
fused salmon. Yellow throat.									
G	Ruf.	EM	Ex.						
PELEGRINA (<i>Pfitzer</i>)	Pure dark violet.	Considered		1	.15	.10	..	15	.15
very fine in this color.				10	1.20	.80	.40	100	.70
G	Pl.	E	Ex.						
PHYLLIS McQUISTON (<i>Stewart</i>)	Glowing shrimp			1	.90	.50	.30	3	.15
pink to lighter throat. Tall. Choice.				10	..	4.00	2.30	10	.35
G	Pl.	M	Dec.	..	..	..	..	100	2.50
PICARDY (<i>Palmer</i>)	Shrimp pink.	Tall good grower.		2	.12	..	..	100	.15
One of the very best Glads in existence.				10	.50	.30	.15	1000	1.20
E	Pl.	EM	Ex. Dec.	100	3.20	2.00	1.20	Qt.	3.00
PRAIRIE GOLD (<i>Corrington</i>)	Very deep yellow.			1	5.00	5.00	..	..	..
Hair lines of carmine on reverse. Extra fine.									
G	Pl.	EM	Dec.						
PREMIER HENRY (<i>Palmer</i>)	Geranium pink with			1	1.00	.60	.30	..	..
carmine blotch.									
E	Ruf.	M	Ex.						

<i>Substance</i>	<i>Floret</i>	<i>Season</i>	<i>Type</i>	Per	Large	Med.	Small	Per	Blts.
PRIDE OF PORTLAND (<i>Ellis</i>)			Light rose red.	2	.15	..	..	..	..
G	Pl.	LM	Ex.	10	.60	.40	.25	..	..
PRIMATE (<i>Crow</i>)			Clear yellow that is a good commercial. Tall.	3	.15	..	..	100	.15
G	Pl.	M	Ex. Dec.	10	.45	.30	.15	..	..
PROF. VAN SLOGTEREN (<i>Alkemade</i>)			Rose pink shaded salmon. Tall.	2	.15	3-.15	..	20	.15
G	Pl.	EM	Ex.	10	.60	.40	.25	100	.65
PURPLE VICTORY (<i>Gilrey</i>)			Rich maroon red. A massive plant and spike. Very fine.	1	.20	.15	.10	10	.20
E	Ruf.	M	Ex.	10	1.80	1.20	.80	25	.40
RAMESSES (<i>Stevens</i>)			Ruffled red purple. Extremely tall and large. Different.	1	.10	2-.12	..	25	.10
E	Ruf.	M	Dec.	10	.80	.50	.25	100	.35
RED ADMIRAL (<i>DeGroot</i>)			Clear scarlet, somewhat darker blotch. Wide open florets on tall stem.	1	.20	.15	.10	10	.15
G	Pl.	EM	Ex.	10	1.70	1.20	.70	100	1.20
				..	..	..	..	1000	9.00
RED GIANT (<i>Phillips</i>)			Bright cerise with darker throat. Mammoth spike and flower.	1	..	7.50	5.00	1	1.00
G	Pl.		Ex.						(No discount on this variety.)
RED GLORY (<i>Piper</i>)			Heavily ruffled rich red.	1	.10	2-.15	4-.15	..	..
E	Ruf.	M	Ex.						
RED RUFFLES (<i>Arenius</i>)			Medium red with eight flowers open at one time.	1	..	.75	.50	5	.40
G	Ruf.	M	Ex.						
REDWOOD BEAUTY (<i>Majeski</i>)			Flame red flecked darker. Scarlet and cream throat. Leathery substance. Fine novelty.	1	2.00	1.20	.90	1	.20
E	Ruf.	LM	Dec.	..	..	..	..	5	.90
REVERIE (<i>Palmer</i>)			Creamy pink shading to cream throat. Tall straight spikes. Extra fine.	1	1.20	.85	.50	10	.80
G	Pl.	M	Dec.	10	..	7.00	4.50	100	7.00
RITA BECK (<i>Fischer</i>)			Fine LaFrance pink.	3	.15	..	..	100	.15
G	Pl.	LM	Ex.	10	.45	.25	.15	..	..
ROBERT BURNS (<i>Christ</i>)			Violet blue. Lighter and nearer blue than Pelegrina. Tall spike.	1	20.00	..	10.00	..	..
G	Pl.		Ex. Dec.						
ROSEMARIE PFITZER (<i>Pfitzer</i>)			Delicate pink to creamy white. Neatly waved. Large and fine.	1	..	.25	.20	10	.35
G	Ruf.	EM	Ex.	10	..	..	1.60	..	..
ROSE LADY (<i>Christ</i>)			Smoky rose. Flowers well placed. Many open.	1	..	.45	.25	3	.25
G	Pl.		Ex.	10	..	3.20	2.00	10	.70
				..	..	..	..	100	5.50
ROYAL OMAR (<i>Christ</i>)			Salmon rose with lighter throat. Tall straight spike.	1	..	.50	.30	2	.20
G	Ruf.		Ex.	..	..	..	..	10	.80
SALMON EMPEROR (<i>DeGroot</i>)			Bright orange salmon. Large flower wide open.	1	.20	.15	.10	10	.15
G	Ruf.	M	Dec.	..	..	..	..	100	1.20
SENATOR (<i>Mair</i>)			Dark salmon scarlet smoky with light blotch. Straight spike.	1	.20	.15	.10	25	.15
G		L	Ex.	..	..	..	..	100	.50
SILVERSHEEN (<i>Symons</i>)			Glowing pink overlaid silvery sheen. 10 open. Tall.	1	.25	.15	.10	10	.50
G	Pl.	M	Ex.	..	..	..	..	25	.90
SMILING MAESTRO (<i>Christ</i>)			Rich orange salmon. Straight spike. Many open. Very fine.	1	.70	.45	.30	10	.40
G	Pl.	M	Ex.	10	..	4.00	2.40	50	1.80
SMILING THRU (<i>Ellis</i>)			Cream with lilac tints.	1	.20	.15	.10	20	.20
G	Ruf.	LM	Dec.	..	..	..	..	100	.70

<i>Substance</i>	<i>Floret</i>	<i>Season</i>	<i>Type</i>	Per	Large	Med.	Small	Per	Blts.
SOLVEIG (<i>Prestgard</i>)	Pure white with rose in throat. Beautiful texture and form.			1	1.35	.75	.40	2	.15
E	Ruf.	LM	Ex. Dec.	10	9.00	6.00	3.80	10	.50
				..	..	..	..	100	4.00
SONATINE (<i>Pftzer</i>)	Atlas-rose with small cherry blotch. Large flower, tall plant. Fine.			1	.80	.50	.30	2	.15
G	Pl.	EM	Dec.	..	..	..	..	10	.70
SOUTHERN CROSS (<i>Whitely</i>)	Fine clear red that does not burn easily. Medium height.			1	.25	.15	.10	10	.25
G	Pl.		Ex. Dec.	..	..	..	..	100	2.00
STAR OF BETHLEHEM (<i>Pftzer</i>)	Largest and best snowy white. Long stems. 6-8 open.			1	.45	.35	.25	2	.15
G	Pl.	EM	Ex.	10	3.80	2.80	2.00	10	.70
				..	..	..	..	100	6.00
ST. LAWRENCE (<i>Christ</i>)	Brilliant scarlet, rich rose red blotch. Large flowers.			1	2.00	1.25	.80	1	.20
G	Pl.	M	Ex.	..	..	..	..	10	1.50
SULTAN (<i>Crow</i>)	Deep rosy red or pomegranate purple. Vigorous grower.			1	.15	.10	2-.15	15	.15
G	Ruf.	M	Ex.						
SUNNYSIDE (<i>Phillips</i>)	Cerise pink, flaked darker shading to white center. Tall and 10 open.			1	.80	.40	.25	1	.10
G	Pl.	L	Ex.	..	..	..	..	10	.90
SWEETHEART (<i>Prestgard</i>)	Lovely white with pink edges. Tall straight spike.			1	.15	.10	2-.12	10	.25
G	Ruf.	E	Dec.	10	..	.80	.50	100	2.00
TAKINA (<i>Burns</i>)	Rosaline purple, lightly flecked darker. Massive plant and flowers.			1	..	2.50	2.00	1	.50
G	Pl.		Ex.						
TIP TOP (<i>Pftzer</i>)	Brilliant scarlet, darker throat. Very large flower. Tall spike. Fine.			1	.60	.40	.30	3	.25
G	Pl.	M	Ex.	..	..	..	..	10	.80
				..	..	..	..	100	7.00
TOA (<i>Miller</i>)	Large rosy salmon with darker blotch. Tall straight spike.			1	1.00	.60	..	2	.15
G	Pl.		Ex.						
VIENNA WOODS (<i>Christ</i>)	New blue from the originator of Blue Admiral. Deep violet.			1	5.00	3.00	1.50	1	.35
G	Pl.	EM	Dec.						
WARATAH (<i>Errey</i>)	Brilliant orange scarlet, crimson center. Large fine spike.			1	.40	.25	.15	10	.25
G	Pl.	M	Ex.						
WASAGA (<i>Palmer</i>)	Clear glowing buff. Good spike. A real beauty.			1	.20	.10	2-.12	100	.70
G	Ruf.	EM	Dec.	10	1.40	.70	.40	1000	5.00
				100	12.00	6.00	3.20	Qt.	18.00
WINGS OF JOY (<i>Christ</i>)	Flesh and light salmon.			1	.40	.25	.15	10	.25
F	Pl.	LM	Ex.	..	..	..	..	100	2.00
ZAUBERFLOETE (<i>Pftzer</i>)	Peach rose, vivid red blotch. Straight slender spike.			1	2.75	2.25	1.50	1	.35
G	Pl.		Dec.	..	..	..	..	10	3.00

Minnesota Gladiolus Society

If you grow gladiolus you should become a member of a gladiolus society. Dues of \$2.00 per year will enroll you as a member of the Minnesota Gladiolus Society, which also entitles you to affiliated memberships in the American Gladiolus Society and the Minnesota Horticultural Society. Besides you will receive two fine monthly publications, the *Gladiolus Review* and the *Minnesota Horticulturist*.

You can also become a member for \$1.00 but you will not be affiliated with the American Gladiolus Society and will not receive the *Gladiolus Review*.

Send dues to A. J. Mandehr, Secretary, 1134 Palace St., St. Paul, Minnesota, or send to me and I will take care of it for you.

Special Collections

Please order the following collections by number. No discounts are allowed. Orders will be accepted only as long as the stock is available. Some of the collections are sure to be sold out very soon.

- No. 1. BAGDAD. \$1.10. 2 large, 10 medium, 50 small, 200 blts.
 No. 2. BAGDAD. \$2.65. 2 large, 20 medium, 100 small, 1000 blts.
 No. 3. BOB WHITE. \$1.10. 1 large, 2 medium, 10 small, 25 blts.
 No. 4. BOB WHITE. \$3.30. 2 large, 5 medium, 25 small, 200 blts.
 No. 5. GERTRUDE SWENSON. \$1.20. 1 medium, 2 small, 10 blts.
 No. 6. D. A. HAY. \$1.75. 1 medium, 3 small, 10 blts.
 No. 7. DOROTHY DELL. \$1.25. 2 large, 4 medium, 10 small, 50 blts.
 No. 8. EDITH ROBSON. \$1.00. 4 large, 10 medium, 100 blts.
 No. 9. JEAN PHYLLIS. \$1.55. 1 large, 3 medium, 4 small, 10 blts.
 No. 10. JONQUIL. \$3.00. 1 large, 1 medium, 1 small, 10 blts.
 No. 11. KING ARTHUR. \$1.00. 1 large, 3 medium, 5 small, 25 blts.
 No. 12. LADY EATON. \$1.95. 1 large, 2 medium, 4 small, 10 blts.
 No. 13. LADY LOVE. \$1.75. 2 large, 5 medium, 10 small, 50 blts.
 No. 14. MAY DAVIDSON. \$1.10. 1 large, 2 medium, 5 small, 25 blts.
 No. 15. MILDRED LOUISE. \$1.35. 2 large, 5 medium, 10 small, 25 blts.
 No. 16. MISS NEW ZEALAND. \$4.85. 1 medium, 1 small, 10 blts.
 No. 17. MISS NEW ZEALAND. \$2.40. 1 small, 5 blts.
 No. 18. ORANGE PRINCESS. \$2.25. 4 large, 10 medium, 25 small, 200 blts.
 No. 19. ORANGE PRINCESS. \$1.00. 2 large, 5 medium, 10 small, 50 blts.
 No. 20. PHYLLIS McQUISTON. \$1.45. 1 medium, 5 small, 10 blts.
 No. 21. PHYLLIS McQUISTON. \$4.30. 1 large, 5 medium, 10 small, 50 blts.
 No. 22. PICARDY. \$1.00. 5 large, 15 medium, 25 small, 200 blts.
 No. 23. PICARDY. \$2.70. 10 large, 50 medium, 100 small, 1000 blts.
 No. 24. RED ADMIRAL. \$1.50. 2 large, 5 medium, 10 small, 50 blts.
 No. 25. ROSE LADY. \$2.00. 2 medium, 5 small, 15 blts.
 No. 26. SENATOR. \$1.00. 2 large, 3 medium, 5 small, 15 blts.
 No. 27. SMILING THRU. \$1.00. 2 large, 3 medium, 5 small, 15 blts.
 No. 28. SOLVEIG. \$4.85. 1 large, 2 medium, 10 small, 25 blts.
 No. 29. SOLVEIG. \$1.60. 1 medium, 2 small, 10 blts.
 No. 30. STAR OF BETHLEHEM. \$2.25. 1 large, 2 medium, 5 small, 15 blts.
 No. 31. STAR OF BETHLEHEM. \$2.25. 2 large, 5 medium, 5 small.
 No. 32. WASAGA. \$1.10. 2 large, 5 medium, 10 small, 50 blts.
 No. 33. WASAGA. \$1.40. 2 large, 10 medium, 25 small.
 No. 34. WASAGA. \$7.40. 10 large, 25 medium, 100 small, 1000 blts.
 No. 35. WINGS OF JOY. \$1.30. 1 large, 2 medium, 4 small, 15 blts.

No. 36 \$1.45. You save \$1.00 by buying this collection which is an assortment of every color and includes many of the finest varieties. It is especially suited for the beginner and for those that want a good assortment at little cost. All are large size bulbs.

3 AFLAME	3 EMILE AUBRUN	3 PICARDY
1 AMADOR	3 GOLDEN DREAM	3 PRIMATE
3 BAGDAD	2 LA PALOMA	1 SMILING THRU
3 BETTY NUTHALL	2 Mrs. F. C. HORNBERGER	1 WASAGA
3 EDITH ROBSON	2 MINUET	

No. 37. \$1.85. Same varieties as in collection No. 36 but double the number of bulbs. These will be medium size bulbs and will all bloom.

No. 38. BULBLET collection. \$2.30.

5 Blue Admiral	2 Lady Eaton
10 Bob White	2 Max Regar
5 Champlain	2 Miss New Zealand
2 D. A. Hay	5 Phyllis McQuiston
3 Gertrude Swenson	2 Reverie
5 Gloria Mundi	3 Rose Lady
2 Jonquil	5 Solveig

Very newest varieties at low cost.

No. 39. BULB collection. \$2.85

5 small	Bob White
2 medium	May Davidson
2 medium	Orange Delight
5 medium	Orange Princess
1 small	Phyllis McQuiston
1 medium	Solveig
1 medium	Star of Bethlehem
5 medium	Wasaga

Cultural Directions

SOIL PREPARATION

The soil best suited for the growing of gladiolus should not be too heavy and not too sandy. If too heavy add some humus material such as leaf mold, manure, etc., and perhaps some sand if soil is a heavy clay loam. To very light soils add peat, manure or leaf-mould as this will help to hold the moisture and keep the soil from drying out. All soils should have plenty of humus or the action of commercial fertilizers will not be so effective. Gladiolus will grow in any soil, but a little preparation will pay you well.

PLANTING

Before planting the bulbs, work the soil to a depth of eight to ten inches. Plant in rows eighteen inches apart and three inches between the bulbs in the row. They can also be planted in beds, placing the bulbs six inches apart each way. Place the bulbs six inches deep in light soil and four inches in heavy soil. Small bulbs are planted more shallow. Plant in full sun if possible.

FERTILIZING

Manure should be well worked into the soil in the fall. Use a commercial fertilizer in the spring, placing it below the bulbs or else working it well into the soil before planting. Five pounds to a one-hundred foot row is the amount to use. A fertilizer high in phosphoric acid should be used at this time, such as 4-16-4 or one of similar formula. The first figure indicates the percentage of nitrogen, the second phosphoric acid and the third, potash. A second application may be made between the rows when the leaves are six to ten inches high. If you wish to grow extra large spikes, use a fertilizer high in nitrogen about the time the buds begin to appear. One to two pounds is sufficient for a hundred-foot row.

WATERING AND CULTIVATING

Water every four or five days if necessary, but be sure to give them a good soaking when you do. Light sprinkling does more harm than good. Keep the surface of the soil well stirred up. Cultivate after each rain or watering to keep a crust from forming.

Thrip

Thrip are tiny insects that feed on the leaves and blossoms. They live over winter in rubbish piles or on the bulbs in storage. Control of thrips in storage can be accomplished by placing the bulbs in bags or closed boxes and spreading naphthaline flakes over them. One ounce to one hundred bulbs is sufficient. Close the container tightly and leave for two or three weeks in a warm room. Then remove the naphthaline and place in cool temperature. Another good treatment is to soak the bulbs for four hours in Corrosive Sublimate, one ounce to ten gallons of water, using a wood or earthen container. This is also a preventive against scab on the bulbs.

Summer control of thrip can be accomplished by spraying the foliage at ten-day intervals, beginning when the plant makes its second and third leaves. One ounce of paris green (two tablespoons), two pounds brown sugar and three gallons of water has proven a good formula. A good pressure in spraying is beneficial. Care must be taken not to spray in the heat of the day as the paris green might burn the foliage slightly. Three or four applications are usually all that is necessary but you must start spraying when the plants are small

Disease Control

Scab or neck rot can be controlled to a great extent by the following practice: Destroy all diseased bulbs, dip all bulbs in a good disinfectant and plant on clean ground that is well drained. Corrosive Sublimate is a good dip, using the same formula and treatment as for thrip. Calogreen has been found to be unusually effective in the control of scab. Dip just before planting for five minutes, using one-half ounce to one gallon of water. A little Calogreen must be added occasionally to keep the strength up. Metal containers may be used. Spraying the foliage during the summer with Bordeaux Mixture, using eight to ten tablespoons to one gallon of water, is also beneficial in the control of neck rot.

Wayzata Everbearing Strawberry

This new everbearing strawberry is continuing to prove its superiority over all other varieties. The quality is equal to or better than any spring berry. When a customer once tries them they will not want any other kind. The berries are very large and firm and are good shippers. It has proved to be an excellent variety for canning.

The Wayzata is a good productive variety but good cultural practices will well reward you for your efforts. With us it has been a good plant maker. It grows equally well on clay, sand or peat soils. The plants bear freely until a killing frost in the fall.

The Minnesota, Wisconsin and Michigan Horticultural Societies have tested this berry and recommend it very highly. It is now being grown in all sections of the United States with equal success.

I would advise you to place your order early. The past two years the supply of plants available for sale has been exhausted very early in the season and many were obliged to go without them or plant other varieties. Try them and you will never grow any other variety of everbearing strawberry.

25 plants	\$1.85	250 plants	\$ 8.75
50 plants	2.90	500 plants	16.50
100 plants	4.25	1000 plants	30.00
Prices quoted are prepaid.		10% Discount up to March 15th.	

Discounts listed on page 2 do not apply to Wayzata Strawberries.

COSMOS "Sensation" (Award of Merit)

This new strain of cosmos is truly a sensation. Received an award of merit in the All American selection for 1936. Early giant flowered type. Give plants plenty of room and disbud for exhibition bloom with long stems.

We have grown them in separate colors the past two years and we feel sure that the seed will come 90% true to color.

WHITE—50c per pkt.	(50 or more seeds)
PINK —35c per pkt.	(50 or more seeds)
MIXED—25c per pkt.	(50 or more seeds)

GOURDS (Ornamental)

The seed which we are offering is the finest mixed strain we have ever grown, having collected it from the very best sources. The crop harvested last fall contained 75% of the warted type and were of various sizes and shapes.

Gourds are very easily grown, requiring the same culture as melons and squash. It is necessary to leave them on the vine until thoroughly matured. When properly dried and varnished, gourds will last indefinitely.

MIXED SEEDS—35c per pkt.

CALOGREEN and CORROSIVE SUBLIMATE

The correct use of Calogreen and Corrosive Sublimate is explained under cultural directions.

These chemicals can only be shipped by express. Prices are net and f.o.b. Minneapolis.

CORROSIVE SUBLIMATE:	1 lb. \$1.50; 5 lb. \$6.75.
CALOGREEN:	1 lb. \$1.90; 5 lb. \$8.75.

FERTILIZER

For the benefit of those that are unable to buy commercial fertilizer in their community, I will gladly arrange to have it shipped to them. Seed stores in the larger cities should also be able to supply you. The following prices are net and f.o.b. Minneapolis.

4-16-4,	\$3.25 per 125 lb. (4% Nitrogen, 16% Phosphoric acid, 4% Potash)
8- 8-6,	\$3.00 per 100 lb. (8% Nitrogen, 8% Phosphoric acid, 6% Potash)
Sulphate of Ammonia,	\$3.00 per 100 lb. (20% Nitrogen)

